

Inkyu Shin | Curriculum Vitae

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I am a first-year Ph.D. student at Korea Advanced Institute of Science and Technology (KAIST) under the co-supervision of Prof. Kuk-Jin Yoon and Prof. In So Kweon. I earned my B.S and M.S degrees in automotive engineering from Hanyang University(HYU) and KAIST in 2019 and 2021. I was a research intern at NEC Laboratories America, Inc, San Jose, CA.

Research Interests

My research interests currently lie in computer vision. Specifically, I pursue the goal of effectively processing data to build strong and generalizable model in computer vision. Followings are my main research topics.

- Image Translation
- Domain Adaptation and Generalization
- Simulated Learning
- Self-supervised Learning

Ultimately, the purpose of these researches is to apply to a variety of applications (e.g., Autonomous driving, Robot Navigation, AR/VR).

Research Experience

- **NEC Laboratories America, Inc** **San Jose, CA**
Research Intern, Supervisor: Yi-Hsuan Tsai. May 2021 - Aug 2021
- **Korea University** **Seoul, Korea**
Research Intern, Supervisor: Jaegul Choo. Sep 2018 - Dec 2018
- **Hanyang University** **Seoul, Korea**
Research Assistant, Supervisor: Myuon-Ho Sunwoo Jul 2018 - Aug 2018
- **Samsung Electronics** **Hwasung, Korea**
Intern, Semi-conductor Test Group. Jan 2018 - Mar 2018

Education

- **Korea Advanced Institute of Science and Technology (KAIST)** **Daejeon, Korea**
AUTOMOTIVE ENGINEERING Ph.D. degree, Advisor: In So Kweon 2021–
- **Korea Advanced Institute of Science and Technology (KAIST)** **Daejeon, Korea**
AUTOMOTIVE ENGINEERING M.S degree, Advisor: In So Kweon 2019–2021
Master's Thesis: Learning to Scale the Labels for Self-training based Domain Adaptation
- **Hanyang University (HYU)** **Seoul, Korea**
AUTOMOTIVE ENGINEERING B.S degree 2013–2019

Publications

(C: conference / J: journal / P: preprint / * :equal contributions)

International Conference.....

- **[P1] Unsupervised Domain Adaptation for Video Semantic Segmentation**
Kwanyong Park*, **Inkyu Shin***, Sanghyun Woo, In So Kweon
arXiv, 2021
- **[C5] LabOR: Labeling Only if Required for Domain Adaptive Semantic Segmentation**
Inkyu Shin, Dong-Jin Kim, Jae Won Cho, Sanghyun Woo, Kwanyong Park, In So Kweon
International Conference on Computer Vision (**ICCV**), 2021 (**Oral**)
- *Received Qualcomm Innovation Award 2021.*
- **[C4] Discover, Hallucinate, and Adapt: Open Compound Domain Adaptation for Semantic Segmentation**
Kwanyong Park, Sanghyun Woo, **Inkyu Shin**, In So Kweon
Conference on Neural Information Processing Systems (**NeurIPS**), 2020
- **[C3] Two-phase Pseudo Label Densification for Self-training based Domain Adaptation**
Inkyu Shin, Sanghyun Woo, Fei pan, In So Kweon
European Conference on Computer Vision (**ECCV**), 2020
- Also presented at "Visual Learning with Limited Labels" Workshops in conjunction with (**CVPR**), 2020
- **[C2] Unsupervised Intra-domain Adaptation for Semantic Segmentation through Self-Supervision**
Fei pan, **Inkyu Shin**, Francois Rameau, Seokju Lee, In So Kweon
Computer Vision and Pattern Recognition (**CVPR**), 2020 (**Oral**)
- **[C1] Image-to-Image Translation via Group-wise Deep Whitening-and-Coloring Transformation**
Wonwoong Cho, Sungha Choi, David Keetae Park, **Inkyu Shin**, Jaegul Choo
Computer Vision and Pattern Recognition (**CVPR**), 2019 (**Oral**)

IT skills

- Languages: Python, MATLAB, C, LATEX
- Libraries: PyTorch

References

- **In So Kweon**, Professor, KAIST
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Service

- Military Service: Graduated from US Army Sergeant school(WLC) as KATUSA.